

# ★ QST ★

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Removing Hot Tubes (McCoy)	

## I.A.R.U. NEWS

Austria	63, Sept.
December Calendar	58, Dec.
June Calendar	63, Sept.
Philippines	63, Sept.; 58, Dec.
QSL Bureau Changes	63, Sept.
QSL Bureaus of the World	59, June; 58, Dec.
WAC Boundary Change	63, Sept.

## KEYING & CONTROL CIRCUITS

Application of the Characteron as a Morse-Code Converter, The (McNaney and Jackson)	16, Mar.
Beginner's Code-Practice Set, A (McCoy)	36, Feb.
Break-In with One Antenna (Puckett)	35, Mar.
Double-Duty Relay Service (H & K)	42, June
Low-Cost Transistorized Code-Practice Oscillator, A (Hoisington)	24, June
"Paratone"—An R.F.-Powered Monitor for Break-In, The (Klein and Slusher)	25, Aug.
Protective Circuit for Transmitting Tetrodes, A (Belting)	33, Oct.
Simplified "Break-In with One Antenna" (Crawford)	30, Nov.
Thyratron-Controlled Electronic Key, A (Gallagher)	24, Dec.
Transistor Self-Powered C.W. Monitor, A (Klein and Slusher)	28, Jan.
Feed-back	10, Apr.
"Tur-Key" in Miniature, The (Turrin)	11, Sept.
Using the Select-O-Ject as a Keying Monitor (H & K)	39, Dec.
VR Break-In Keying (Goodman)	33, Feb.

## MEASUREMENTS & TEST EQUIPMENT

Checking R.F. Chokes with the G.D.O. (Johnson)	15, Feb.
Distortion in Single-Sideband Linear Amplifiers (Bruene)	24, Nov.
Dual Regulated General-Purpose Power Supply (Hansen)	20, Dec.
Grid-Dip Meter as an Aid to Crystal Grinding, The (H & K)	45, Feb.
Handy Mounting for the Neon Bulb (H & K)	54, Nov.
Lazy Man's Panoramic Adapter, The (Ehrlich)	14, Nov.
Modulating the Grid-Dip Oscillator (H & K)	56, Nov.
Principal Characteristics of Standard-Frequency and Time-Signal Stations (Strays)	54, Apr.
'Scope Intensifier (On the Air with Single Sideband)	112, Mar.
Simple Continuity Tester (H & K)	54, Nov.
Test-Lead Storage (H & K)	42, May
Transient Demonstrator, A (Rumble)	46, Nov.
TVI Checking at Headquarters	34, Apr.
Two-Dial Receivers and 100-Kc. Signals	34, Oct.
Using the B.F.O. as an Interpolation Oscillator (Campbell)	31, Dec.
Vacuum-Tube Insulation-Resistance Tester, A (Kosa)	42, Feb.
V.T.V.M. Power Supply for the G.D.O. (H & K)	39, July
WWV-WWWH Schedules	34, Jan.; 110, June; 73, Nov.
50-Kc. Markers from a 100-Kc. Crystal	40, July

## MISCELLANEOUS — GENERAL

Earphone Pads (H & K)	39, July
FCC Visits ARRL Hq.	10, Mar.
Handy Storage Bins (H & K)	122, Feb.
Homemade QSL Cards (H & K)	55, Nov.
New Books	47, Jan.; 62, July; 130, Aug.
Novice & Technician Exams by Mail	51, May
Public Relations Project, A (Archer)	18, Nov.
QST — Volume I (Young)	40, Oct.
(See also "It Seems to Us . . ." same issue)	

QST Article Indexing Hint (H & K)	55, Nov.
Switch to Safety	72, Oct.
Transmitter Hunting with the D.F. Loop (Norberg)	33, Apr.
W9NZZ Wins Edison Award	16, Apr.

## MISCELLANEOUS — TECHNICAL

Application of the Characteron as a Morse Code Converter, The (McNaney and Jackson)	16, Mar.
Build Your Own Panoramic Adapter (Priebe)	20, Sept.
Circuit Diagrams (Technical Correspondence)	114, Mar.
Circuit Diagrams (Technical Topics)	42, Jan.
Circuit Symbol for the Junction-Type Transistor (Technical Topics)	36, Oct.
Color-Code Reminder (H & K)	42, Aug.
Crystal-Socket Hint (H & K)	42, June
Extending the Range of the ARRL Lightning Calculator (Beers; Bradley)	40, Sept.
Low-Voltage Regulation (H & K)	42, Aug.
Feed-back	136, Oct.
New Apparatus & Recent Equipment	47, Jan.; 52, Feb.; 47, May; 43, June; 43, July; 43, Aug.; 42, Sept.; 56, Sept.; 38, Oct.; 40, Dec.
Removing Pilot Lamps (H & K)	39, Sept.
Sunspots Just Around the Corner? (Technical Topics)	53, Aug.

## MOBILE

Bandpass Circuit Design for Crystal-Controlled Converters (Hadlock)	27, Feb.
Checks on 10-Meter Mobile Whip, Some (Plummer and Seidel)	34, Aug.
Have You Tried V.H.F. Mobile? (Tilton)	16, Sept.
"Mighty Mo" Gets Mightier (Mouradian)	34, May
Mobile Loop Antennas (Webster)	26, June
More About Generator Noise (H & K)	48, Mar.
R.F. Assembly for Mobile or Fixed-Station Work (Chambers)	11, Oct.
Feed-back	10, Nov.
Simple Crystal-Controlled Converters (Deane)	34, Dec.
Stow Clamp for Mobile Antennas (H & K)	63, Jan.
Suppression of Auto-Gauge Interference (H & K)	48, Mar.
Transmitter Hunting with the D.F. Loop (Norberg)	33, Apr.
Twenty-Five Watts Under the Dash (Lamb)	10, Aug.
Unusual 75-Meter Mobile Antenna, An (Haughton)	23, Jan.
Using 12-Volt Dynamotors with 6-Volt Charging Systems (H & K)	42, Aug.

## MODULATION

A.M. Equivalent of Single Sideband, The (Gramer)	19, Jan.
Delay-Line Phase Shift (Griffin and Fryklund)	12, Mar.
Distortion in Single-Sideband Linear Amplifiers (Bruene)	24, Nov.
Phase-Modulation Exciter for the V.H.F. Man (Southworth)	39, Aug.
Post-Phasing Distortion (Technical Topics)	40, Feb.
Principles of Radiotelephony, Some (Goodman) — Part I	37, May
Part II	13, June
Part III	34, July
Part IV	22, Oct.
Addendum	40, June
Single-Sideband Economy (Technical Topics)	43, Mar.
120 Watts of Audio Without Driving Power (Gramer)	15, Dec.

## POWER SUPPLY

Dual Regulated General-Purpose Power Supply (Hansen)	20, Dec.
Power-Supply Hint (H & K)	54, Nov.

## RECEIVING

Adding a Mechanical Filter to the 75A-1 (Andrew)	35, Jan.
Bandpass Circuit Design for Crystal-Controlled Converters (Hadlock)	27, Feb.
Broad-Band Bandswitching Converter/Preselector (Latter)	25, Sept.
CD-10-TC, The (Deane)	32, Nov.
Feed-back	146, Dec.
Cascaded Half-Lattice Crystal Filters for 'Phone and C.W. Reception (Morrison)	21, May
Crystal-Controlled Converter for 432 Mc., A (Tilton)	24, Jan.
Crystal-Controlled Converter for 21 Mc., A (Tilton)	29, Mar.

Double-Conversion Attachment for 2-Meter Receivers (Bretsfelder)	32, Dec.
Double Conversion Using the BC-348 (H & K)	42, June
Gadgets for the S-76 (McCoy)	44, Nov.
Getting the Most Out of Your Receiver (Goodman)	32, Jan.
Have You Tried V.H.F. Mobile? (Tilton)	16, Sept.
How To Tune a Single-Sideband Signal (Goodman)	20, Aug.
I.F. Transformer for the "Good Four-Tube Superhet" (H & K)	42, May
Invading Never-Never Land (Peters)	30, July
Lazy Man's Panoramic Adapter, The (Ehrlich)	14, Nov.
Modifying the S-40 for S.S.B. Reception (Sommerfeld)	42, Apr.
Feed-back	130, May
Notes on Selectivity Control for the Collins 75A-3 (H & K)	39, Sept.
One-Package Station for Two Meters, A (Southworth)	11, Apr.
Feed-back	118, June
'Phone Selectivity for the BC-312 (Morrison)	19, Feb.
Radical Approach to Improved 'Phone Reception, A (Rapp)	37, Apr.
R.F. Amplifiers for 420 Mc. Using the 6AN4 (Lee and Lofthouse)	39, Mar.
Receiver for Flat Purses, A (Hayward)	34, June
Selectivity and 'Phone Reception (Goodman)	20, Mar.
Sideband Filters Using Crystals (Burns)	35, Nov.
Simple Crystal-Controlled Converters (Deane)	34, Dec.
Source of Hum in Old Receivers (H & K)	134, July
Subband Markings for HRO Coils (H & K)	63, Jan.
Transistor Superregenerative Receiver for 10 and 6 Meters, A (Wadsworth)	17, Nov.
Two-Dual Receivers and 100-Kc. Signals	34, Oct.
Using the B.F.O. as an Interpolation Oscillator (Campbell)	31, Dec.
Using the Select-O-Ject as a Keying Monitor (H & K)	39, Dec.

## REGULATIONS

(Also see "Happenings of the Month")

Antenna Mast Okayed	32, June
Austrian Ban Off	33, June
Call Sign Requests Denied	53, Dec.
Canadian Regs. Changed	45, July
Conelrad Plan Approved	46, Aug.
FCC Denies Voice Expansion — Opens 6-Meter Duplex	41, Oct.
New Security Rules	46, Aug.; 45, Sept.
Novice & Technician Changes	52, May
Novice & Technician Exams by Mail	51, May
Recent Commission Actions	50, Nov.
Renewal Form 405-A	52, Dec.
Sideband Segregation Denied	52, Dec.
What's with Your Log? (McCoy)	32, Mar.
3.5-Mc. Pacific Use	47, Aug.
21-Mc. MM Granted	33, June

## SINGLE SIDEBAND

A.M. Equivalent of Single Sideband, The (Gramer)	19, Jan.
Case for the AB1 Linear, The (Gramer)	26, Apr.
Delay-Line Phase Shift (Griffin and Fryklund)	12, Mar.
Distortion in Single-Sideband Linear Amplifiers (Bruene)	24, Nov.
Fine Tuning with a Clapp Oscillator (On the Air with Single Sideband)	38, Feb.
How To Tune a Single-Sideband Signal (Goodman)	20, Aug.
Modifications of "W9LJ" Anti-Trip Voice Control (On the Air with Single Sideband)	38, Feb.
Modifying the S-40 for S.S.B. Reception (Sommerfeld)	42, Apr.
Feed-back	130, May
Post-Phasing Distortion (Technical Topics)	40, Feb.
Resistance-Coupled Buffer for Stabilizing a 6AG7 (On the Air with Single Sideband)	39, Feb.
'Scope Intensifier (On the Air with Single Sideband)	112, Mar.
Selectable Sideband with VFO and a Filter-Type Generator (On the Air with Single Sideband)	46, Jan.
Sideband Filters Using Crystals (Burns)	35, Nov.
Single Sideband (editorial)	9, Oct.
Single-Sideband Economy (Technical Topics)	43, Mar.
Still More on Moving Crystal Frequencies (On the Air with Single Sideband)	112, Mar.
Tubeless VFO for the 10A, A.	28, June
Re the	30, Oct.
Using the Viking I with a Crystal-Filter Exciter (On the Air with Single Sideband)	34, Mar.
Using the Viking II as a Linear Amplifier (On the Air with Single Sideband)	46, Jan.
813a in a High-Power Linear (Simon)	20, July



## TRANSMITTERS

Bandswitching 813 Rig with Pi-Section Output, A (Resconin)	16, June
CD-10-TC, The (Deane)	32, Nov.
Feed-back	146, Dec.
Civil Defense Control-Station Transmitter, A (Rand) — Part I	16, Aug.
Part II	33, Sept.
"Connecticut Kilowatt," The (Resconin)	30, Aug.
Crystal Control on 220 Mc. (Tilton and Southworth)	16, Feb.
High-Power Pi-Network Amplifier with Parallel Tetrodes (Bridges)	13, May
Low-Cost Gallon, A (Anthony)	31, Sept.
"Mighty Mo" Gets Mightier (Mouridian)	34, May
Notes on Grounded-Grid R.F. Power Amplifiers (Puckett)	36, Dec.
One-Package Station for Two Meters, A (Southworth)	11, Apr.
Feed-back	118, June
Phase-Modulation Exciter for the V.H.F. Man (Southworth)	39, Aug.
Pigmy Powerhouse, The (Countryman)	17, Apr.
R.F. Assembly for Mobile or Fixed-Station Work (Chambers)	11, Oct.
Feed-back	10, Nov.
Simple 144-Mc. Rig for C.D. Work, A (Newland)	31, Feb.
Step-by-Step Transmitter for the V.H.F. Man, A (Tilton and Southworth) — Part I	16, Oct.
Part II	41, Nov.
Supplementary Data on the Three-Control 813 Transmitter (Chambers)	37, June
Technician Rig for 220 and 420 Mc. (Southworth)	27, Dec.
Three-Control Six-Band 813 Transmitter (Chambers)	11, Jan.
Twenty-Five Watts Under the Dash (Lamb)	10, Aug.
40-Watt Amplifier for 220 Mc., A (Tilton)	18, May
40 Watts on the 7- and 21-Mc. Bands (McCoy)	11, Dec.
813s in a High-Power Linear (Simon)	20, July

## TRANSMITTING

Amplitude Limiting for the VFO (Bernstein)	24, Feb.
Audio for the Mobile or Fixed-Station R.F. Assembly (Chambers)	21, Nov.
Feed-back	146, Dec.
Bandspreading the Clapp VFO (Russell)	37, Oct.
Case for the AB <sub>1</sub> Linear, The (Grammer)	26, Apr.
Curing Regeneration in the Bandswitching Kilowatt (H & K)	55, Nov.
Delay-Line Phase Shift (Griffin and Fryklund)	12, Mar.
Distortion in Single-Sideband Linear Amplifiers (Bruene)	24, Nov.
Fine Tuning with a Clapp Oscillator (On the Air with Single Sideband)	38, Feb.
Have You Tried V.H.F. Mobile? (Tilton)	16, Sept.
Let's Go VFO (McCoy)	23, Apr.
Modifications of "W9LIJ" Anti-Trip Voice Control (On the Air with Single Sideband)	38, Feb.
More About the Grid-Plate Oscillator (H & K)	63, Jan.
Multiband 813 Final, A (Rinaudo)	11, Nov.
Multiband Tuning Circuits (Johnson)	25, July
Notes on Grounded-Grid R.F. Power Amplifiers (Puckett)	36, Dec.
Post-Phasing Distortion (Technical Topics)	40, Feb.
Protective Circuit for Transmitting Tetrodes, A (Beling)	33, Oct.
Putting the Collins 32-V on 160 (Zelle)	38, Apr.
R.F. Chokes for High-Power Parallel Feed (Chambers)	30, May
Reducing Tank-Condenser Minimum Capacitance	29, July
Resistance-Coupled Buffer for Stabilizing a 6AG7 (On the Air with Single Sideband)	39, Feb.
Selectable Sideband with VFO and a Filter-Type Generator (On the Air with Single Sideband)	46, Jan.
Sideband Filters Using Crystals (Burns)	35, Nov.
Simplified "Break-In with One Antenna" (Crawfis)	30, Nov.
Single-Ended Multiband Tuners (Chambers)	23, July
Single-Sideband Economy (Technical Topics)	43, Mar.
Still More on Moving Crystal Frequencies (On the Air with Single Sideband)	112, Mar.
Tin Can Low-Pass, The (McCoy)	29, Sept.
Tubeless VFO for the 10A, A	28, June
Re the	30, Oct.

Using the Meissner Type EX Signal Shifter at 1.8 Mc. (H & K)	49, Apr.
Using the Viking I with a Crystal-Filter Exciter (On the Air with Single Sideband)	34, Mar.
Using the Viking II as a Linear Amplifier (On the Air with Single Sideband)	46, Jan.
50-Mc. TVI — Its Causes and Cures (Ladd) — Part I	21, June
Part II	32, July
120 Watts of Audio Without Driving Power (Grammer)	15, Dec.

## TVI

ITV (editorial)	9, Aug.
"ITV" Filing (Happenings of the Month)	146, Dec.
On the TVI Front	
ARRL TVI Demonstration Visits Dallas	57, Dec.
Cure for ITV	46, Sept.
Encouraging Letter	57, Dec.
Licking U.H.F. Strip TVI — A Success Story	28, Mar.
Raytheon Advises Consumers on TVI	31, June
Reminder — Television Script on TVI Available	28, Mar.
TVI Committee Operation Described	46, Sept.
Up-to-Date List of TVI Committees	31, June
21-Mc. TVI	57, Dec.
Preventing R.F. Leaks with Aluminum Foil (H & K)	122, Feb.
Progress and Activities Report — Washington TVI Committee (Richman)	52, July
Standing Waves and TVI (Technical Topics)	44, Jan.
Tin Can Low-Pass, The (McCoy)	29, Sept.
TVI Checking (editorial)	9, Apr.
TVI Checking at Headquarters	34, Apr.
TVI "Diplomatics" (Rowe and Lake)	30, June
TVI Show to West Coast (Happenings of the Month)	45, Apr.
TV Receiver Radiation (Napork) (Technical Correspondence)	57, Nov.
50-Mc. TVI — Its Causes and Cures (Ladd) — Part I	21, June
Part II	32, July

## V.H.F. & MICROWAVES

Civil Defense Control-Station Transmitter, A (Rand) — Part I	16, Aug.
Part II	33, Sept.
Coast to Coast on 144 Mc.	62, Aug.
Crystal Control on 220 Mc. (Tilton and Southworth)	16, Feb.
Crystal-Controlled Converter for 432 Mc., A (Tilton)	24, Jan.
Double-Conversion Attachment for 2-Meter Receivers (Bretzfelder)	32, Dec.
Have You Tried V.H.F. Mobile?	16, Sept.
New Record on 10,000 Mc.	10, June
One-Package Station for Two Meters, A (Southworth)	11, Apr.
Feed-back	118, June
Phase-Modulation Exciter for the V.H.F. Man (Southworth)	39, Aug.
R.F. Amplifiers for 420 Mc. Using the 6AN4 (Lee and Loofbourrow)	39, Mar.
Simple 144-Mc. Rig for C.D. Work (Newland)	31, Feb.
Step-by-Step Transmitter for the V.H.F. Man, A (Tilton and Southworth) — Part I	16, Oct.
Part II	41, Nov.
Technician Rig for 220 and 420 Mc. (Southworth)	27, Dec.
Transistor Superrenerative Receiver for 10 and 6 Meters, A (Wadsworth)	17, Nov.
World Above 50 Mc., The	
Atlanta, Ga., C.D. Antennas for 144 Mc.	57, A. r.
Coat-Hanger Antenna Elements	68, Nov.
Feeding Stacked Arrays with Coaxial Line	62, Aug.
Horizontal Polarization and 2-Meter Mobile	55, Jan.
R.F. Amplifier Hints	63, June
432-Mc. Converter Ideas (WNSNJ)	66, Nov.
6252 and 6360, New Twin Tetrodes	55, Feb.
6360 Tripler for 423 Mc.	67, Nov.
6524, New U.H.F. Twin-Tetrode	136, Oct.
40-Watt Amplifier for 220 Mc., A (Tilton)	18, May
50-Mc. TVI — Its Causes and Cures (Ladd) — Part I	21, June
Part II	32, July